

SECRET

(When Filled In)

997-35

R & D CATALOG FORM

DATE

7 January 1965

1. PROJECT TITLE/CODE NAME

Model II, Projected Scale
Micrometer

2. SHORT PROJECT DESCRIPTION

An attachment for the [REDACTED]
Zoom 70 Microstereoscope that projects a measuring
reticle into the optical system.

3. CONTRACTOR NAME

4. LOCATION OF CONTRACTOR

5. CLASS OF CONTRACTOR

Manufacturer

6. TYPE OF CONTRACT

Fixed Price

7. FUNDS

FY 1965

8. REQUISITION NO.

5500-8607-65

9. BUDGET PROJECT NO.

NP-M-1

FY 19 \$

10. EFFECTIVE CONTRACT DATE
(Begin - end)

Jan 1965 - June 1965

FY 19 \$

12. RESPONSIBLE DIRECTORATE/OFFICE/PROJECT OFFICER TELEPHONE EXTENSION

DDI/NPIC/P&DS [REDACTED] 2610

13. REQUIREMENT/AUTHORITY

14. TYPE OF WORK TO BE DONE

This project is an engineering development directed toward
the design and fabrication of a prototype Model II Projected Scale Micrometer.

15. CATEGORIES OF EFFORT

MAJOR CATEGORY

Measurement & Rectification
Equipment

SUB-CATEGORIES

Optical Systems

16. END ITEM OR SERVICES FROM THIS CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM, EQUIPMENT, ETC.

This project will result in one prototype, monthly progress reports and an
instruction manual. This unit will be an advanced version of the prototype built
for NPIC by [REDACTED] under a previous contract. The Model II incorporates the most
desirable features of the original and introduces a number of changes to simplify

17. SUPPORTING OR RELATED CONTRACTS (Agency & Other)/COORDINATION

By virtue of contracts throughout industry and the intelligence
community, it appears that no equivalent device exists or is under development.

Declass Review by NIMA / DoD

18. DESCRIPTION OF INTELLIGENCE REQUIREMENT AND DETAILED TECHNICAL DESCRIPTION OF PROJECT (Continue on addi-
tional page if required)Photographic interpretation operations present a continual
problem pertaining to comparative measurements of small scale imagery. A device
to solve this problem should be precise, compact and relatively inexpensive in
production quantities. The original unit was developed with these requirements in
mind and was generally quite successful in proving the desirability of the
projection-type measuring systems. The Model II is an attempt to improve the human
engineering aspect of the original concept. (Continued)

19. APPROVED BY AND DATE

OFFICE

DEPUTY DIRECTOR

DDCI

SECRET



GROUP 1
Excluded from automatic
downgrading and
declassification

R & D CATALOG FORMS (Continued)

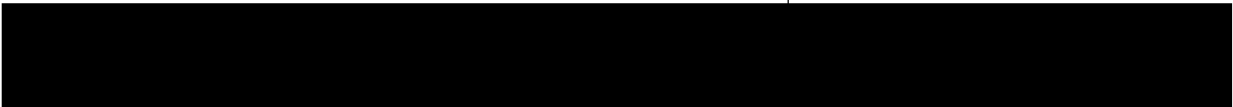
16. and improve the measuring process. Better human engineering is an important improvement.

18. Technical Specifications

The Model II Projected Scale Micrometer will be a prototype instrument incorporating the following characteristics:

a. It is an attachment designed to fit on any standard Model II 
 Zoom 70 Stereomicroscope.

b. Both the image and the measuring mark may be viewed while utilizing the complete zoom magnification ranges of the microscope.


d. A mechanical counter displays the first three (3) digits; while, the last two (2) digits are read from a graduated drum.

e. The measuring reticle can be rotated 180°.

f. Increased reticle illumination is provided.

g. An azimuth ring has been added to permit measuring the angles between converging lines.